

WHAT IS CLAIMED IS:

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1. A communication terminal device comprising:  
display means for displaying information such as  
characters;  
input means for receiving input of operation  
5 information;  
processing means for generating said information  
based on operation information of the input means; and  
light-emitting means for lighting at least either  
said display means or said input means;  
10 reception means for receiving contents data  
described in a predetermined information description  
language based on said operation information;  
code detection means for detecting a  
predetermined code indicative of the end of contents  
15 data received by the reception means; and  
light-emission control means for stopping light-  
emission by said light-emitting means upon start of the  
reception of said contents data by said reception means  
and starting light-emission by said light-emitting means  
20 upon detection of said predetermined code by said code  
detection means.

2. The communication terminal device as set forth in  
claim 1, comprising:  
communication type determination means for

determining whether call is to be made by voice  
5 information or said contents data is to be received, and

light-emission control means for, when the  
determination is made by said communication type  
determination means that said call is to be made,  
stopping light-emission by said light-emitting means  
10 upon start of said call and starting light-emission by  
said light-emitting means upon end of said call and when  
the determination is made by said communication type  
determination means that said contents data is to be  
received, stopping light-emission by said light-emitting  
15 means upon start of the reception of said contents data  
by said reception means and starting light-emission by  
said light-emitting means upon detection of said  
predetermined code by said code detection means.

3. The communication terminal device as set forth in  
claim 1, comprising:

time counting means for starting counting time  
from when said operation information is input by said  
5 input means, and

light-emission stop means for stopping light-  
emission by said light-emitting means when time counted  
by the time counting means overs a lighting time set in  
advance.

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4. The communication terminal device as set forth in

claim 1, comprising:

communication type determination means for  
determining whether call is to be made by voice  
information or said contents data is to be received,

light-emission control means for, when the  
determination is made by said communication type  
determination means that said call is to be made,  
stopping light-emission by said light-emitting means  
upon start of said call and starting light-emission by  
said light-emitting means upon end of said call and when  
the determination is made by said communication type  
determination means that said contents data is to be  
received, stopping light-emission by said light-emitting  
means upon start of the reception of said contents data  
by said reception means and starting light-emission by  
said light-emitting means upon detection of said  
predetermined code by said code detection means,

time counting means for starting counting time  
from when said operation information is input by said  
input means, and

light-emission stop means for stopping light-  
emission by said light-emitting means when time counted  
by the time counting means overs a lighting time set in  
advance.

5. The communication terminal device as set forth in  
claim 1, wherein

said reception means  
receives contents data described in an  
5 information description language such as a hypertext  
markup language or a wireless markup language, and said  
code detection means detects a predetermined end tag  
indicative of the end of contents data received by said  
reception means.

10 6. The communication terminal device as set forth in  
claim 1, wherein

said reception means receives contents data  
described in an information description language such as  
5 a hypertext markup language or a wireless markup  
language, and said code detection means detects a  
predetermined end tag indicative of the end of contents  
data received by said reception means, and which further  
comprises:

10 time counting means for starting counting time  
from when said operation information is input by said  
input means, and

light-emission stop means for stopping light-  
emission by said light-emitting means when time counted  
15 by the time counting means overs a lighting time set in  
advance.

7. The communication terminal device as set forth in  
claim 1, comprising:

communication type determination means for  
determining whether call is to be made by voice  
5 information or said contents data is to be received, and  
light-emission control means for, when the  
determination is made by said communication type  
determination means that said call is to be made,  
stopping light-emission by said light-emitting means  
10 upon start of said call and starting light-emission by  
said light-emitting means upon end of said call and when  
the determination is made by said communication type  
determination means that said contents data is to be  
received, stopping light-emission by said light-emitting  
15 means upon start of the reception of said contents data  
by said reception means and starting light-emission by  
said light-emitting means upon detection of said  
predetermined code by said code detection means, wherein  
said reception means  
20 receives contents data described in an  
information description language such as a hypertext  
markup language or a wireless markup language, and said  
code detection means detects a predetermined end tag  
indicative of the end of contents data received by said  
25 reception means.

8. The communication terminal device as set forth in  
claim 1, comprising:

communication type determination means for

determining whether call is to be made by voice  
5 information or said contents data is to be received,

light-emission control means for, when the  
determination is made by said communication type  
determination means that said call is to be made,  
stopping light-emission by said light-emitting means  
10 upon start of said call and starting light-emission by  
said light-emitting means upon end of said call and when  
the determination is made by said communication type  
determination means that said contents data is to be  
received, stopping light-emission by said light-emitting  
15 means upon start of the reception of said contents data  
by said reception means and starting light-emission by  
said light-emitting means upon detection of said  
predetermined code by said code detection means,

time counting means for starting counting time  
20 from when said operation information is input by said  
input means, and

light-emission stop means for stopping light-  
emission by said light-emitting means when time counted  
by the time counting means overs a lighting time set in  
25 advance, wherein

said reception means

receives contents data described in an  
information description language such as a hypertext  
markup language or a wireless markup language, and said  
30 code detection means detects a predetermined end tag

indicative of the end of contents data received by said reception means.

9. The communication terminal device as set forth in claim 1, wherein

said light-emission control means, at the time of stopping light-emission by said light-emitting means, stops light-emission after a lapse of a predetermined wait time.

10. A communication terminal device comprising:

display means for displaying information such as characters;

input means for receiving input of operation information;

processing means for generating said information based on operation information of the input means; and

light-emitting means for lighting at least either said display means or said input means;

reception means for receiving contents data described in a predetermined information description language expressing one contents data by a plurality of cards based on said operation information;

code detection means for detecting a card end tag indicative of the end of each said card of the contents data received by the reception means; and

light-emission control means for stopping light-

20 emission by said light-emitting means upon start of the  
reception of said contents data by said reception means  
and starting light-emission by said light-emitting means  
upon detection of said card end tag by said code  
detection means.

11. The communication terminal device as set forth in  
claim 10, wherein

5 said reception means receives contents data  
described in a wireless markup language.

12. The communication terminal device as set forth in  
claim 10, further comprising

5 detection tag setting means for in advance  
setting either an end tag indicative of the end of said  
contents or a card end tag indicative of the end of each  
said card to be detected, wherein

said code detection means detects a tag set by  
said detection tag setting means from the contents data  
received by said reception means, and

10 said light-emission control means stops light-  
emission by said light-emitting means upon start of the  
reception of said contents data by said reception means  
and starts light-emission by said light-emitting means  
upon detection of a tag set by said detection tag  
15 setting means by means of said code detection means.



13. The communication terminal device as set forth in claim 10, wherein

5 said reception means receives contents data described in a wireless markup language, and which further comprises

detection tag setting means for in advance setting either an end tag indicative of the end of said contents or a card end tag indicative of the end of each said card to be detected, and wherein

10 said code detection means detects a tag set by said detection tag setting means from the contents data received by said reception means, and

15 said light-emission control means stops light-emission by said light-emitting means upon start of the reception of said contents data by said reception means and starts light-emission by said light-emitting means upon detection of a tag set by said detection tag setting means by means of said code detection means.

14. The communication terminal device as set forth in claim 10, comprising:

5 time counting means for starting counting time from when said operation information is input by said input means, and

light-emission stop means for stopping light-emission by said light-emitting means when time counted by the time counting means overs a lighting time set in

advance.

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15. The communication terminal device as set forth in claim 10, comprising:

time counting means for starting counting time from when said operation information is input by said input means, and

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light-emission stop means for stopping light-emission by said light-emitting means when time counted by the time counting means overs a lighting time set in advance, wherein

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said reception means receives contents data described in a wireless markup language.

16. The communication terminal device as set forth in claim 10, comprising:

time counting means for starting counting time from when said operation information is input by said input means,

5

light-emission stop means for stopping light-emission by said light-emitting means when time counted by the time counting means overs a lighting time set in advance, and

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detection tag setting means for in advance setting either an end tag indicative of the end of said contents or a card end tag indicative of the end of each said card to be detected, wherein

15        said code detection means detects a tag set by  
said detection tag setting means from the contents data  
received by said reception means, and

20        said light-emission control means stops light-  
emission by said light-emitting means upon start of the  
reception of said contents data by said reception means  
and starts light-emission by said light-emitting means  
upon detection of a tag set by said detection tag  
setting means by means of said code detection means.

17.        The communication terminal device as set forth in  
claim 10, wherein

5        said light-emission control means, at the time of  
stopping light-emission by said light-emitting means,  
stops light-emission after a lapse of a predetermined  
wait time.

18.        A display control method in a communication  
terminal device having display means for displaying  
information such as characters, input means for  
receiving input of operation information, processing  
5        means for generating said information based on operation  
information of the input means, and light-emitting means  
for lighting at least either said display means or said  
input means, comprising the steps of:

10        receiving contents data described in a  
predetermined information description language based on

said operation information;

detecting a predetermined code indicative of the end of received contents data; and

stopping light-emission by said light-emitting means upon start of the reception of said contents data and starting light-emission by said light-emitting means upon detection of said predetermined code.

19. The display control method in a communication terminal device as set forth in claim 18, comprising the steps of:

determining whether call is to be made by voice information or said contents data is to be received, and

when the determination is made that said call is to be made, stopping light-emission by said light-emitting means upon start of said call and starting light-emission by said light-emitting means upon end of said call and when the determination is made that said contents data is to be received, stopping light-emission by said light-emitting means upon start of the reception of said contents data and starting light-emission by said light-emitting means upon detection of said predetermined code.

20. The display control method in a communication terminal device as set forth in claim 18, comprising the steps of:

5            counting the time from when said operation  
information is input by said input means, and  
             stopping light-emission by said light-emitting  
means when counted time overs a lighting time set in  
advance.

21.        A display control method in a communication  
terminal device having display means for displaying  
information such as characters, input means for  
receiving input of operation information, processing  
5        means for generating said information based on operation  
information of the input means, and light-emitting means  
for lighting at least either said display means or said  
input means, comprising the steps of:

             receiving contents data described in a  
10        predetermined information description language  
expressing one contents data by a plurality of cards  
based on said operation information;

             detecting a card end tag indicative of the end of  
each said card of received contents data; and

15        stopping light-emission by said light-emitting  
means upon start of the reception of said contents data  
and starting light-emission by said light-emitting means  
upon detection of said card end tag.

22.        The display control method in a communication  
terminal device as set forth in claim 21, wherein

contents data described in a wireless markup language is received.

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23. The display control method in a communication terminal device as set forth in claim 21, further comprising the steps of:

5 in advance setting either an end tag indicative of the end of said contents or a card end tag indicative of the end of each said card to be detected,

detecting a set tag from received contents data, and

10 stopping light-emission by said light-emitting means upon start of the reception of said contents data and starting light-emission by said light-emitting means upon detection of a set tag.

24. The display control method in a communication terminal device as set forth in claim 21, further comprising the steps of:

5 counting time from when said operation information is input by said input means, and

stopping light-emission by said light-emitting means when counted time overs a lighting time set in advance.

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